

IN THE CLAIMS

1-9. Canceled.

10. (Previously Amended) An automatic component mounting unit for mounting an electrical component onto a substrate of an electrical assembly, comprising:

a plurality of mounting members disposed for mounting said electrical component, each of said mounting members including a respective data storage device, wherein each of said data storage devices stores an amount of mounting process data related to a fixed reference mark, for each of said respective mounting members; and

a control device disposed for controlling said automatic component mounting unit, each of said data storage devices transmitting said amount of mounting process data to said control device, wherein said amount of mounting process data is utilized so as to adapt each of said mounting members for optimal use during said mounting of said electrical component.

11. (Original) An automatic component mounting unit according to claim 10 wherein each of said data storage devices includes a transponder unit for communicating with said control device in a contactless manner, and wherein said transponder unit is directly attached to each of said mounting members.

12. (Original) An automatic mounting unit according to claim 10 wherein said mounting members include a mounting head member.

13. (Original) An automatic mounting unit according to claim 10 wherein said mounting members include a mounting feeding member.

14. (Original) An automatic mounting unit according to claim 10 wherein said mounting members include a mounting sensor member.

15. (Previously Amended) A system for operating an automatic component mounting unit for mounting an electrical component onto a substrate of an electrical assembly, comprising:

a plurality of mounting members installed for mounting said electrical component, wherein each of said members includes a respective data storage device for storing an amount of process data related to a fixed reference mark; and

a control device disposed for communicating with each of said data storage devices for processing said amount of process data, wherein said control device utilizes said amount of process data so as to readily adapt each of said mounting members for optimal use upon installation of each of said mounting members to said automatic component mounting unit.

16. (Previously Added) An automatic component mounting unit according to claim 10, wherein the mounting process data includes at least one of geometrical and positioning data measured relative to a fixed reference mark.

17. (Previously Added) An automatic component mounting unit according to claim 10, wherein said control device receives said amount of mounting process data to configure movement and positioning of the plurality of mounting members.

18. (Previously Added) An automatic component mounting unit according to claim 16, wherein said control device receives said amount of mounting process data to configure movement and positioning of the plurality of mounting members.

19. (Previously Added) A system as claimed in claim 15, wherein said amount of process data includes at least one of geometrical and positioning data measured relative to a fixed reference mark.

20. (Previously Added) A system as claimed in claim 15, wherein said control device receives said amount of process data to configure movement and positioning of the plurality of mounting members.

21. (Previously Added) A system as claimed in claim 19, wherein said control device receives said amount of process data to configure movement and positioning of the plurality of mounting members.

22. (Currently Amended) An automatic component mounting unit for mounting an electrical component onto a substrate, comprising:

a plurality of mounting members disposed for mounting an electrical component, wherein each of said mounting members includes a respective data storage device, adapted to store mounting process data related to a fixed reference mark ~~is stored for each of said respective mounting members~~; and

a control device, adapted to control said plurality of mounting members, wherein the mounting process data is utilized by the control device so as to control ~~adapt each of the~~ mounting members for optical use during the mounting of an electrical component.

23. (Previously Added) The automatic component mounting unit of claim 22, further comprising a mounting head member, including the plurality of mounting members.

24. (Previously Added) The automatic component mounting unit of claim 23, wherein the mounting head member includes a storage device for storing the mounting process data.

25. (Previously Added) The automatic component mounting unit of claim 24, wherein the storage device is a transponder, adapted to communicate with the control device in a contactless manner.

26. (Previously Added) The automatic component mounting unit of claim 22, wherein the mounting process data is transferred from a data storage medium.

27. (Previously Added) The automatic component mounting unit of claim 23, wherein the mounting process data is stored on a data storage medium, insertable into at least one of the mounting head member and control device.

28. (Previously Added) The automatic component mounting unit of claim 22, wherein the mounting process data is stored on a data storage medium, insertable into the control device.

29. (Previously Added) An automatic component mounting unit according to claim 22, wherein the mounting process data includes at least one of geometrical and positioning data measured relative to a fixed reference mark.

30. (Previously Added) An automatic component mounting unit according to claim 22, wherein said control device receives said amount of mounting process data to configure movement and positioning of the plurality of mounting members.

31. (Previously Added) An automatic component mounting unit according to claim 27, wherein the mounting process data includes at least one of geometrical and positioning data measured relative to a fixed reference mark.

32. (Previously Added) An automatic component mounting unit according to claim 27, wherein said control device receives said amount of mounting process data to configure movement and positioning of the plurality of mounting members.